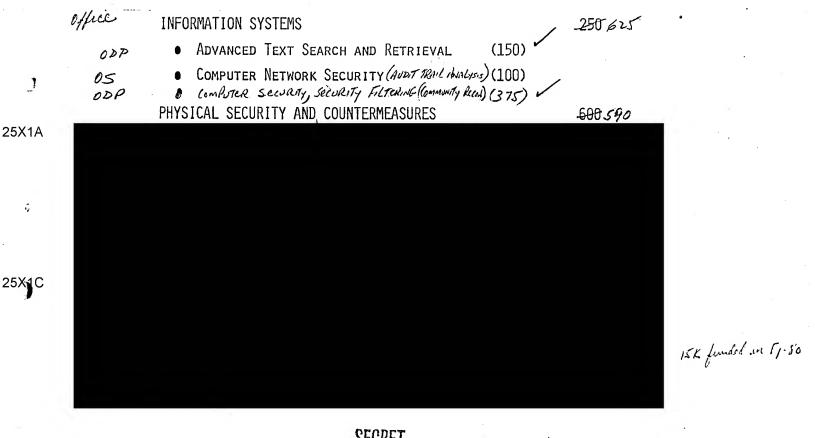
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ORD FY-81 PROGRAMS FOR DDA



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FY81 RESEARCH PROGRAM

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ORD RESEARCH PROGRAM DEFINITION

- REQUIREMENTS GENERATED BY ALL OFFICES
- RANKING OF REQUIREMENTS (CRITICALITY, \$ PAY OFF)
- Ř&Ď VALIDITY
- CRD SKILL BASE
- PERCEPTUAL PROGRAY FOR TEDS

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PROPOSED ORD FY81 PROGRAM

INFORMATION SYSTEMS

- ADVANCED TEXT SEARCH AND RETRIEVAL
- DATA PROTECTION TECHNIQUES FOR DATA STORED ON MAGNETIC MEDIA
- € COMPUTER NETWORK SECURITY

RELATED RESEARCH

• Information Processing for Analysts





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ADVANCED TEXT SEARCH AND RETRIEVAL - STUDY THE APPLICATION OF ADVANCED TEXT

SEARCHING AND RETRIEVAL TECHNIQUES, INITIALLY DEVELOPED

UNDER THE HIGH SPEED TEXT SEARCH PROGRAM, FOR APPLICATION

TO ODP RETRIEVAL REQUIREMENTS. THE FY81 STUDY WILL IN
CLUDE AN EXAMINATION OF THE APPLICATION OF THE TECHNIQUES

BY DIRECT INCORPORATION IN CPU'S (VIA MICROCODE) OR TO

PERIPHEPALS (VIA MODIFIED DISK CONTROLLERS), A DEFINITION

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QUADS:

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DATA PROTECTION TECHNIQUES FOR DATA STORED ON MAGNETIC MEDIA - EXPLORE TECHNICAL MEANS FOR THE PROTECTION OF COMPUTER DATA STORED ON MAGNETIC MEDIA USED IN FIELD APPLICATIONS. THE OBJECTIVE IS TO AVOID THE COMPROMISE OF DATA WITHOUT THE NEED TO DESTROY DISKS AND TAPES. THE FY81 STUDY WILL EXAMINE ALGORITHMS FOR STORING AND RETRIEVING DATA IN PROTECTED FORM. THE ANALYSIS WILL ADDRESS IMPLEMENTATION, COST, AND OPERATIONAL CONSIDERATIONS.

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Computer Network Security - Explore methodology to provide a provably secure mechanism to allow access to Agency systems by other Intelligence Community members that observes compartmentation requirements. The FY81 Study will establish the formal specification of requirements and will determine the solvability of the formulated problem.

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FUNDs:

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Information Processing for Analysts - Continue the exploration of computer systems

Architectures which will provide an information processing
Environment directed towards the manipulation of analysts'
COGNITIVE MODELS RATHER THAN THE MANIPULATION OF ANALYSTS'
DATA. This phase of the activity involves the selection of
AN APPLICATION AREA AND THE DEVELOPMENT OF A DEMONSTRATION/
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OTHER ODP FY81 RESEARCH REQUIREMENTS

- BANDWIDTH COMPRESSION TECHNIQUES (DDA RANKED #5)
 - More effective utility of bandwidth constrained communications overseas

ILLEGIB

TRANSMISSION OF VOLUMINOUS TEXT AND IMAGERY TO ANALYST STATIONS (I.E., ADSTAR AND IDEX)